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1 [A new approach to processor allocation and task migration in an N-cube](#)


[multiprocessor](#)

J. E. Jang, S. W. Choi, W. K. Cho

 August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**

Publisher: ACM Press

Full text available: pdf(909.44 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose a new strategy to recognize the maximum subcube in an n-cube multiprocessor. This subcube recognition algorithm can be done in both serial and parallel and analyzed. This strategy will enhance the performance drastically so that our algorithm will outperform the buddy system by a factor nC_k , the gray strategy by $nC_k/2$ and Al-Dhelaan [8] by $nC_k/(k(n-k)+1)$ i ...

2 [Task migration in hypercube multiprocessors](#)



M.-S. Chen, K. G. Shin

 April 1989 **ACM SIGARCH Computer Architecture News , Proceedings of the 16th annual international symposium on Computer architecture ISCA '89**, Volume 17 Issue 3

Publisher: ACM Press

Full text available: pdf(720.40 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Allocation and deallocation of subcubes usually result in a fragmented hypercube where even if a sufficient number of hypercube nodes are available, they do not form a subcube large enough to execute an incoming task. As the fragmentation in conventional memory allocation can be handled by memory compaction, the fragmentation problem in a hypercube can be solved by task migration, i.e., relocating tasks within the hypercube to remove the fragmentation. The procedure for tas ...

3 [Comparing the effectiveness of fine-grain memory caching against page migration/replication in reducing traffic in DSM clusters](#)



An-Chow Lai, Babak Falsafi

 July 2000 **Proceedings of the twelfth annual ACM symposium on Parallel algorithms and architectures**

Publisher: ACM Press

Full text available: pdf(105.85 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we compare and contrast two techniques to improve capacity/conflict miss

traffic in CC-NUMA DSM clusters. Page migration/replication optimizes read-write accesses to a page used by a single processor by migrating the page to that processor and replicates all read-shared pages in the sharers' local memories. R-NUMA optimizes read-write accesses to any page by allowing a processor to cache that page in its main memory. Page migration/replication requires less hardware c ...

4 Attacking the process migration bottleneck



E. Zayas

November 1987 **ACM SIGOPS Operating Systems Review , Proceedings of the eleventh ACM Symposium on Operating systems principles SOSP '87**, Volume 21
Issue 5

Publisher: ACM Press

Full text available: pdf(1.35 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Moving the contents of a large virtual address space stands out as the bottleneck in process migration, dominating all other costs and growing with the size of the program. Copy-on-reference shipment is shown to successfully attack this problem in the Accent distributed computing environment. Logical memory transfers at migration time with individual on-demand page fetches during remote execution allows relocations to occur up to one thousand times faster than with standard ...

5 Garbage collecting the Internet: a survey of distributed garbage collection



Saleh E. Abdullahi, Graem A. Ringwood

September 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 3

Publisher: ACM Press

Full text available: pdf(337.65 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Internet programming languages such as Java present new challenges to garbage-collection design. The spectrum of garbage-collection schema for linked structures distributed over a network are reviewed here. Distributed garbage collectors are classified first because they evolved from single-address-space collectors. This taxonomy is used as a framework to explore distribution issues: locality of action, communication overhead and indeterministic communication latency.

Keywords: automatic storage reclamation, distributed, distributed file systems, distributed memories, distributed object-oriented management, memory management, network communication, object-oriented databases, reference counting

6 Replica allocation methods in ad hoc networks with data update



Takahiro Hara

August 2003 **Mobile Networks and Applications**, Volume 8 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(230.68 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In ad hoc networks, since mobile hosts move freely, network division occurs frequently, and thus data accessibility is lower than that in conventional fixed networks. In this paper, assuming an environment where each data item is periodically updated, we propose three replica allocation methods to improve data accessibility by replicating data items on mobile hosts. In these three methods, we take into account the access frequency from mobile hosts to each data item, the status of the network co ...

Keywords: ad hoc networks, data accessibility, mobile computing environment, replica allocation

7 Dynamic file migration in distributed computer systems



Bezalel Gavish, Olivia R. Liu Sheng

February 1990 **Communications of the ACM**, Volume 33 Issue 2

Publisher: ACM Press

Full text available: pdf(1.53 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The importance of file migration is increasing because of its potential to improve the performance of distributed office, manufacturing and hospital information systems. To encourage research in the file migration problem, the authors summarize accomplishments of researchers of the problem, provide a detailed comparison of file migration and dynamic file allocation problems, and identify important areas of research to support the development of effective file migration policies.

8 Special section on sensor network technology & sensor data management (part II):



Replica allocation for correlated data items in ad hoc sensor networks

Takahiro Hara, Norishige Murakami, Shojiro Nishio

March 2004 **ACM SIGMOD Record**, Volume 33 Issue 1

Publisher: ACM Press

Full text available: pdf(89.91 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

To improve data accessibility in ad hoc networks, in our previous work we proposed three methods of replicating data items by considering the data access frequencies from mobile nodes to each data item and the network topology. In this paper, we extend our previously proposed methods to consider the correlation among data items. Under these extended methods, the data priority of each data item is de-fined based on the correlation among data items, and data items are replicated at mobile nodes wi ...

9 Design of optimal distributed file systems: a framework for research



Uwe M. Borghoff

October 1992 **ACM SIGOPS Operating Systems Review**, Volume 26 Issue 4

Publisher: ACM Press

Full text available: pdf(2.08 MB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

In this paper, the problem of determining an optimal location strategy for an individual program execution is considered. In addition, we propose a heuristic approach for the dynamic file allocation problem. In order to reduce the complexity of the optimization problems, a cluster-based approach is used. To access the data files of a distributed file system, a user initiates a program execution. Based on the current allocation of the program and data files as well as the knowledge about the chara ...

10 Process migration



September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3


Publisher: ACM Press

Full text available: pdf(1.24 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

- 11 Experimental evaluation of dynamic data allocation strategies in a distributed database with changing workloads 
Anna Brunstrom, Scott T. Leutenegger, Rahul Simha
December 1995 **Proceedings of the fourth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available:  pdf(962.51 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 12 A comparative analysis of virtual versus physical process-migration strategies for distributed modeling and simulation of mobile computing networks 


Kwun Han, Sumit Ghosh


August 1998 **Wireless Networks**, Volume 4 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  pdf(252.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Improvements in processor power and diminishing processor costs coupled with the potential of asynchronous, distributed algorithms promise to expand the frontier of mobile computing networks. In general, a mobile computing network consists of semi-autonomous or autonomous stationary and mobile agents that perform local computations, cooperate, and communicate among themselves to achieve a desired objective. While the stationary entities are connected through a static interconnection network ...


- 13 AAMP: a multiprocessor approach for operating system and application migration 


 Bob Beck

April 1990 **ACM SIGOPS Operating Systems Review**, Volume 24 Issue 2

Publisher: ACM Press


Full text available:  pdf(1.16 MB) Additional Information: [full citation](#)

- 14 A mechanism to detect changing access patterns and automatically migrate distributed R-tree indexed multidimensional data 

 Scott T. Leutenegger, Rostislav M. Sheykhov, Mario A. López


November 2000 **Proceedings of the 8th ACM international symposium on Advances in geographic information systems**

Publisher: ACM Press

Full text available:  pdf(652.11 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

We present an algorithm to migrate multidimensional data in a non-replicated distributed environment. Our proposed algorithm is intended to improve query performance for mobile objects. Our algorithm automatically detects access pattern changes and migrates portions of the data from current sites of residence to sites recently accessing the data most frequently, thus reducing remote communication costs. We assume the data is indexed by an R-tree multidimensional index and that a global R-tree ...

- 15 User-level process checkpoint and restore for migration 

 M. Bozyigit, M. Wasiq

April 2001 **ACM SIGOPS Operating Systems Review**, Volume 35 Issue 2

Publisher: ACM Press

Full text available:  pdf(659.67 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

In simple words, process checkpointing means saving the state of a process, so that, it can be reconstructed in the future. Checkpointing followed by restore is important for the purpose of load balancing and fault tolerance. For load balancing, processes may have to be migrated among workstations. Before migrating, a process has to be checkpointed, so that, it can be restored from where it left off. For fault tolerance, a process must be ready for a restore at a different site. Thus, an earlier ...


16 [Garbage collecting the world: one car at a time](#)



Richard L. Hudson, Ron Morrison, J. Eliot B. Moss, David S. Munro

October 1997 **ACM SIGPLAN Notices , Proceedings of the 12th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '97**, Volume 32 Issue 10

Publisher: ACM Press

Full text available:  pdf(1.94 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A new garbage collection algorithm for distributed object systems, called DMOS (Distributed. Mature Object Space), is presented. It is derived from two previous algorithms, MOS (Mature Object Space), sometimes called the train algorithm, and PMOS (Persistent Mature Object Space). The contribution of DMOS is that it provides the following unique combination of properties for a distributed collector: safety, completeness, non-disruptiveness, incrementality, and scalability. Furthermore, the DMOS C ...

17 [Load balancing: The load rebalancing problem](#)



Gagan Aggarwal, Rajeev Motwani, An Zhu

June 2003 **Proceedings of the fifteenth annual ACM symposium on Parallel algorithms and architectures**

Publisher: ACM Press

Full text available:  pdf(208.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the classical load balancing or multiprocessor scheduling problem, we are given a sequence of jobs of varying sizes and are asked to assign each job to one of the m empty processors. A typical objective is to minimize makespan, the load on the heaviest loaded processor. Since in most real world scenarios the load is a dynamic measure, the initial assignment may be not remain optimal with time. Motivated by such considerations in a variety of systems, we formulate the problem of load re ...

Keywords: approximation algorithms, load balancing, scheduling

18 [The HP AutoRAID hierarchical storage system](#)



John Wilkes, Richard Golding, Carl Staelin, Tim Sullivan

February 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.82 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Configuring redundant disk arrays is a black art. To configure an array properly, a system administrator must understand the details of both the array and the workload it will support. Incorrect understanding of either, or changes in the workload over time, can lead to poor performance. We present a solution to this problem: a two-level storage hierarchy implemented inside a single disk-array controller. In the upper level of this hierarchy, two copies of active data are stored to provide f ...

Keywords: RAID, disk array, storage hierarchy

19 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research****Publisher:** IBM PressFull text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

20 A survey of process migration mechanisms

Jonathan M. Smith

July 1988 **ACM SIGOPS Operating Systems Review**, Volume 22 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We define process migration as the transfer of a sufficient amount of a process's state from one machine to another for the process to execute on the target machine. This paper surveys proposed and implemented mechanisms for process migration. We pay particular attention to the designer's goals, such as performance, load-balancing, and reliability. The effect of operating system design upon the ease of implementation is discussed in some detail; we conclude that message-passing systems simplify d ...

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IEEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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IEEE JNL IEEE Journal or Magazine

IEEE JNL IEEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEEE Conference Proceeding

IEEE STD IEEE Standard

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Min Tan; Siegel, H.J.;
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[Distributed Computing Systems, 1998. Proceedings. 18th International Conferr](#)
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Young-Hoon Chung; Jeong-Gun Gang; Jae-Won Lee;
[Intelligent Robots and System, 2002. IEEE/RSJ International Conference on](#)
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IEEE CNF IEEE Conference Proceeding

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